

Supplementary Tables and Figures

Table S1: Summary statistics (mean, median, and summed length in base pairs) of assembled transcriptomes, including all transcripts or only the longest isoform of each gene.

Species	All tran- scripts			Longest iso- forms		
	Mean	Median	Summed	Mean	Median	Summed
<i>T. barrerae</i>	925	375	259750044	653	341	157929225
<i>O. mimax</i>	848	371	262001889	633	346	175069671
<i>X. tropicalis</i>	921	457	65487733	832	424	52415101
<i>X. laevis</i>	760	423	93665631	637	379	65804126

Table S2: Hits to the Repbase database for rodents when high abundance k-mer contigs from *T. barrerae* are used as a query using discontinuous blast. Hits are summarized by repeat category (Category), the number of high abundance k-mer contigs that matched each category (Count), and the proportion of all query sequences that hit in each category (Proportion). Some categories are acronyms that refer to long interspersed nuclear element 1 (L1), endogenous retrovirus 1, 2, and 3 (ERV1–3), 7SL RNA derived short interspersed nuclear elements (SINE1/7SL), tRNA derived short interspersed nuclear elements (SINE2/tRNA), satellite DNA (Satellite), mariner/TC1 interspersed repeats (mariner/TC1), the hAT superfamily (hAT), chicken repeat 1 (CR1), Mutator-Don Robertson element (MuDR), The total number of hits comprises 6% (n = 17,226) of the queries (n = 309,680).

TE	Count	Proportion
L1	13832	0.80
ERV3	1061	0.06
SINE2/tRNA	870	0.05
SINE1/7SL	641	0.04
ERV2	445	0.03
ERV1	317	0.02
Satellite	23	0.00
EndogenousRetrovirus	22	0.00
Mariner/Tc1	14	0.00
hAT	10	0.00
DNA transposon	7	0.00
Multicopy gene	6	0.00
Transposable element	5	0.00
CR1	3	0.00
Nonautonomous	3	0.00
Ychromosome	2	0.00

Table S3: Hits to the Repbase database for rodents when high abundance k-mer contigs from *O. mimax* are used as a query using discontinuous blast. Labeling follows Table S2. The total number of hits comprises 9% ($n = 3,816$) of the queries ($n = 41,770$).

TE	Count	Proportion
L1	2868	0.75
ERV3	219	0.06
ERV2	204	0.05
SINE2/tRNA	200	0.05
SINE1/7SL	199	0.05
ERV1	85	0.02
Satellite	18	0.00
Endogenous retrovirus	13	0.00
Transposable element	2	0.00
Mariner/Tc1	2	0.00
hAT	2	0.00
Nonautonomous	1	0.00